Name:

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Geometry, Period

Due Date: Thu, 25 Sep 2014

**Geometry**

**Homework**



**Show your work! Explain your answer graphically, analytically, or verbally.**

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| 1. The multi-purpose room at Muchin has *k* rows of school uniforms for the incoming freshmen with uniforms in each row. Which of the following is an expression for the number of total uniforms (*T*) in the multi-purpose room? Circle your answer. 2. Rewrite the equation to solve for k.   **A.** *T =*  **B.**  *T =*  **C.**  *T =*  **D.**  *T =*  **E.** None of the above *If you choose E, write the  correct equation here:*  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

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| 1. The cost of admission to the Brookfield Zoo is $20 per student for the first 25 students, but only $15 for any additional students. If the total cost for the admission of a group of students is $380, not including tax, then the equation 20(25) + 15(*x*) = 380 correctly describes this relationship if *x* represents the:      1. Average cost per student. 2. Price per student for the first 25 students. 3. Price per student for the additional number of students beyond the first 25. 4. Total number of student tickets purchased. 5. Additional number of student tickets purchased beyond the first 25. 6. Solve for x.      1. The zoo is considering changing the initial cost (c) from $20, which would then change the total cost to T instead of $380, in order to maximize profit. Rewrite the equation above to represent this change. 2. Solve this new equation for x. |

1. Solve for b in the following, 
2. 
3. 
4. 
5. 
6. 
7.  is equivalent to:
8. 
9. 
10. 
11. 
12. 
13. If , then *x* =?
14. 
15. 
16. 
17. 
18. 
19. If a = 2b + 9 and , express a in terms of c: